

28 February 1966

To:

Enclosures: (a) Drawing - Hydraulic Filter Cap
(b) Sketch - Material Buildup

Dear Joe,

When I was in your plant last Fall you showed me some "O" ring material that you were testing for elevated temperatures. I would like very much to test some of this improved material that you have developed and with that in mind I am enclosing a drawing of our hydraulic filter cap.

This cap presently has a metal seal in it to prevent oil leakage past the threads. The drawing enclosed has a cavity built into it for that metal seal, but the cavity may be changed to fit your "O" ring dimensions.

It would be pure chance that you would have an "O" ring molding that would fit this diameter, but if you can send out some of this molding that is close to this size we will test them and try and make them work under our oil temperature conditions.

I talked to this morning in regard to the external oxygen connection to the rear of the pressure suit helmet. I do not think we are too far apart here and perhaps if you send us drawings of this installation we may be alright.

After examining the photo that you sent us of this installation with what appears to be a clay mockup fairing into the oxygen connection, it appears that this would be satisfactory if the lower half of the block, (including the fairing) was molded or bonded to the helmet as part of the shell. I would like to resolve this problem between us and Floyd so that we do not hold you up nor do we have what we may regard as an unsatisfactory solution when the first helmet arrives out here.

25X1A

Also, when I was at your plant last Fall, [] showed me a buildup of pressure suit layers that I was proposing in order to alleviate the radiant heat problems that our pilots have. As you know, we still have this problem and I would like to know the status of the various materials that you were proposing at that time. The enclosed sketch indicates the material buildup as I understood it after talking to Walter.

If you can give us any details or samples of these materials we would like to run some radiant heat research tests on them and begin to determine if there is some benefit to be obtained by the use of these materials.

Best regards,

meb

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